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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Applicants: Henry Daniell

Examiner: David T. Fox

Serial No.: 09/079,640

Confirmation No. 8567

Filed: 5/15/1998

For: UNIVERSAL CHLOROPLAST INTEGRATION  
AND EXPRESSION VECTORS, TRANSFORMED  
PLANTS AND PRODUCTS THEREOF

Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 AND 1.98

Sir:

In accordance with 37 C.F.R. § 1.56, the references listed on the attached form PTO-1449 are being brought to the attention of the Examiner for consideration in connection with the examination of the above-identified patent application.

Applicants respectfully assert that the substantive provisions of 37 C.F.R. §§ 1.97 and 1.98 are met by the foregoing statement. A fee payment of \$180 pursuant to 37 CFR 1.17((p) is authorized on the attached credit card authorization form.

09/15/2005 EAYALEW1 00000168 09079640

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Respectfully submitted

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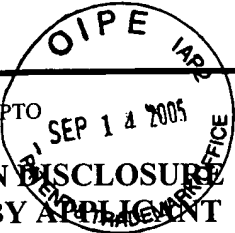
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September 2005.

  
Alicia Hoffman



Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				<b>Application Number</b>	09/079,640
				<b>Filing Date</b>	5/15/1998
				<b>First Named Inventor</b>	Henry Daniell
				<b>Group Art Unit</b>	
				<b>Examiner Name</b>	David T. Fox
				<b>Attorney Docket Number</b>	10742-002
<b>Sheet</b>	1	of	4		

OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	Stable Chloroplast Transformation Using A Universal Integration Vector, Chittibabu Guda et al. Mar 1997 <i>Botany &amp; Micro</i> No. 705	
	2	Correct Splicing of a Group II intron from a chimeric reporter gene transcript in tobacco plastids, Bock et al. <i>Nucleic Acids Research</i> 1995, Vol. 23, No. 13	
	3	Integration of foreign sequences into the tobacco plastome via polyethylene glycol-mediated protoplast transformation, Koop et al. <i>Planta</i> 1996 199: 193-201	
	4	Containment of herbicide resistance through genetic engineering of the chloroplast genome, Daniell et al. <i>Nature Biotechnology</i> Volume 18 April 1998 pp 345-348	
	5	Marker free transgenic plants: engineering the chloroplast genome without the use of antibiotic selection, <i>Curr Genet</i> (2001) 39: 109-116	
	6	Expression of the Native Cholera Toxin B Subunit Gene and Assembly as Functional Oligomers in Transgenic Tobacco Chloroplasts, Daniell et al. <i>J. Mol. Biol</i> (2001) 311, 1001-1009	
	7	Overexpression of the <i>Bt cry2Aa2</i> operon in chloroplasts leads to formation of insecticidal crystals, Cosa et al., <i>Nature Biotechnology</i> Vol. 19 January 2001 pp 71-74	
	8	Expression of an antimicrobial Peptide via the Chloroplast Genome to Control Phytopathogenic Bacteria and Fungi, DeGray et al., <i>Plant Physiology</i> , November 2001, Vol. 127, pp 852-862	
	9	Enhanced translation of a chloroplast-expressed <i>RbcS</i> gene restores small subunit levels and photosynthesis in nuclear <i>RbcS</i> antisense plants, Dhingra et al. <i>PNAS</i> April 20, 2004, Vol. 101, No. 16, 6315-6320	
	10	In vivo analysis of plastid <i>psbA</i> , <i>rbcl</i> , and <i>rp132</i> UTR element by chloroplast transformation: tobacco plastid gene expression is controlled by modulation of transcript levels and translation efficiency, Eibl et al. <i>Plant Journal</i> (1999) 19(3) 333-345	
	11	The stem-loop region of the tobacco <i>psbA</i> 5'UTR is an important determinant of mRNA stability and translation efficiency, Zou et al., <i>Mol. Gen Genomics</i> (2003) 269: 340-349	

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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	12	Chloroplast transformation in oilseed rape, Bing-Kai Hou et al., <i>Transgenic Research</i> 12: 111-114, 2003	
	13	Efficient plastid transformation in tobacco using the <i>aphA-6</i> gene and kanamycin selection, F.-C. Huang et al., <i>Mol Genet Genomics</i> (2002) 268: 19-27	
	14	Dicistronic expression of the green fluorescent protein and antibiotic resistance genes in the plastid for selection and tracking of plastid-transformed cells in tobacco, S.-W. Jeong et al. <i>Plant Cell Rep.</i> (2004) 22: 747-751	
	15	Expression of the B subunit of <i>E. Coli</i> heat-labile enterotoxin in the chloroplasts of plants and its characterization, Kang et al., <i>Transgenic Research</i> 12: 683-691, 2003	
	16	Rapid and proven production of transplastomic tobacco plants by restoration of pigmentation and photosynthesis, Klaus et al., <i>The Plant Journal</i> (2003) 35, 811-821	
	17	Overexpression of the <i>Bacillus thuringiensis</i> (Bt) Cyr2Aa2 protein in chloroplasts confers resistance to plants against susceptible and Bt-resistant insects, Kota et al., <i>Proc. Natl. Acad. Sci, USA</i> Vol. 96, pp 1840-1845 March 1999	
	18	Accumulation of trehalose within transgenic chloroplasts confers drought tolerance, Lee et al., <i>Molecular Breeding</i> 11: 1-13, 2003	
	19	Phytoremediation of Organomercurial Compounds via Chloroplast Genetic Engineering, Ruiz et al., <i>Plant Physiology</i> , July 2003, Vol. 132, pp. 1-9	
	20	Plastid Transformation in <i>Arabidopsis thaliana</i> , S. R. Sikdar et al., <i>Plant Cell Reports</i> (1998) 18: 20-24	
	21	Engineering of the <i>rp123</i> gene cluster to replace the plastid RNA polymerase x subunit with the <i>Escherichia coli</i> homologue, J. Y. Suzuki et al., <i>Curr. Genet</i> (2000) 38: 218-225	
	22	Analysis of Barley chloroplast <i>psbD</i> light-responsive promoter elements in transplastomic tobacco, Thum et al., <i>Plant Molecular Biology</i> 47: 353-366, 2001	
	23	Expression of a chimeric <i>uidA</i> gene indicates that polycistronic mRNAs are efficiently translated in tobacco plastids, Staub et al., <i>The Plant Journal</i> (1995) 7(6), 845-848	

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	24	Kumar, S., Dhingra, A. and Daniell, H. (2004) Plastid expressed betaine aldehyde dehydrogenase gene in carrot cultured cells, roots and leaves confers enhanced salt tolerance. <i>Plant Physiol.</i> <b>136</b> : 2843-2854.	
	25	Ruiz, O.N., Hussein, H., Terry, N., Daniell, H. (2003) Phytoremediation of organomercurial compounds via chloroplast genetic engineering. <i>Plant Physiol.</i> <b>132</b> : 1-9.1344-1352.	
	26	Watson, J., Koya V., Leppla S. and Daniell, H. (2004) Expression of <i>Bacillus anthracis</i> protective antigen in transgenic chloroplasts of tobacco, a non-food/feed crop. <i>Vaccine</i> <b>22</b> , 4374-4384.	
	27	Fernandez-San Millan, A., Mingo-Castel, A. and Daniell, H. (2003) A chloroplast transgenic approach to hyper-express and purify human serum albumin, a protein highly susceptible to proteolytic degradation. <i>Plant Biotechnol. J.</i> <b>1</b> ,71-79.	
	28	Daniell, H., Carmona-Sanchez, O., and Burns, B. B. (2004) Chloroplast derived antibodies, biopharmaceuticals and edible vaccines. In R. Fischer & S. Schillberg (Eds.) <i>Molecular Farming</i> pp.113-133. Weinheim: WILEY-VCH Verlag.	
	29	Sidorov, V.A., Kasten, D., Pang, S.Z., Hajdukiewicz, P.T.J., Staub, J.M., Nehra, N.S. (1999) Stable chloroplast transformation in potato: use of green fluorescent protein as a plastid marker. <i>Plant J.</i> <b>19</b> , 209-216.	
	30	Ruf, S., Hermann, M., Berger, I. J., Carrer, H. and Bock, R. (2001) Stable genetic transformation of tomato plastids and expression of a foreign protein in fruit. <i>Nat. Biotechnol.</i> <b>19</b> , 870-875.	
	31	Kumar, S., Dhingra, A. and Daniell, H. (2004) Stable transformation of the cotton plastid genome and maternal inheritance of transgenes. <i>Plant Mol. Biol.</i> <b>56</b> , 203-216.	
	32	Dufourmantel, N., Pelissier, B., Garcon, F., Peltier, J.M. and Tissot, G. (2004). Generation of Fertile Transplastomic soybean. <i>Plant Mol Biol.</i> <b>55</b> : 727-741.	
	33	Guda, C., Lee, S. B. and Daniell, H. (2000) Stable expression of biodegradable protein based polymer in tobacco chloroplasts. <i>Plant Cell Rep.</i> <b>19</b> , 257-262.	
	34	Muhlbauer, S. K., Lossel, A., Tzekova, L., Zou, Z. R. and Koop, H. U. (2002) Functional analysis of plastid DNA replication origins in tobacco by targeted inactivation. <i>Plant J.</i> <b>32</b> , 175-184.	
	35	Jeong, S. W., Jeong, W. J., Woo, J. W., Choi, D. W., Park, Y. I. and Liu, J. R. (2004) Dicistronic expression of the green fluorescent protein and antibiotic resistance genes in the plastid for selection and tracking of plastid-transformed cells in tobacco. <i>Plant Cell Rep.</i> <b>22</b> , 747-751.	

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